

ABSTRACT OF THE DISCLOSURE**CONE SLACK ALLOCATOR FOR COMPUTING TIME BUDGETS**

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5 Timing slack is allocated to edges of a timing graph
by a converging loop that calls a Domain Restricted Timing
Cone (DRTC) iterator. The DRTC iterator invokes a kernel
program for each DRTC and computes time budgets for each
edge. The time budgets are kept within established
10 constraints of the corresponding DRTC. A timing verifier
computes an amount of slack for each edge based on the
time budget. An edge or arc of the timing graph is made
permanent when the slack is less than a predetermined
epsilon. The kernel program is based on any of a fast
15 estimate, consideration of all time to end point (tte) and
weight to endpoint (wte) pairs within the graph, and/or a
set of tte wte pairs (or an envelope) that represent
segments of a lowest slack to weight ratio.